



**STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL
Lab Services - Jackson Regional Lab
Jackson, TN 38301
731-426-0686

TDH: Lab Services KRL
Lab Services - Knoxville Regional Lab
Knoxville, TN 37920
865-549-5201

TDH: Lab Services NCL
Lab Services - Nashville Central Lab
Nashville, TN 37243
615-262-6300


Sent To: Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002082
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.


Analytical Supervisor

Lab-Sample Number: K00002082001
Project Name:
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA ASH
Project Site No.: Depth 15 feet
Station No.:
Date/Time Collected: 01/02/2009 11:00
Sampler's Name: V. McFall
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.73 pH Units
Chlorine, residual:
Conductivity: 288.0 uMHO
Temperature: 8.56
Dissolved Oxygen: 9.79 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	110	mg/L	3.8	10	S Burchfield	1/4/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	85	mg/L	0.7	1	S Burchfield	1/4/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	S Burchfield	1/8/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002082002
Project Name:
Sample Description: Tennessee River Surface
Sampler Project Name: TVA ASH
Project Site No.: Mile 568.5
Station No.:
Date/Time Collected: 01/02/2009 11:28
Sampler's Name: M. Atchley
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.1 pH Units
Chlorine, residual:
Conductivity: 175 uMHO
Temperature: 7.8
Dissolved Oxygen: 10.6 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	53	mg/L	3.8	10	S Burchfield	1/4/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	40	mg/L	0.7	1	S Burchfield	1/4/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	S Burchfield	1/8/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002082003
Project Name:
Sample Description: Tennessee River @ 15 ft
Sampler Project Name: TVA ASH
Project Site No.: Mile 568.5
Station No.:
Date/Time Collected: 01/02/2009 11:37
Sampler's Name: M. Atchley
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.1 pH Units
Chlorine, residual:
Conductivity: 175 uMHO
Temperature: 7.8
Dissolved Oxygen: 10.6 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	52	mg/L	3.8	10	S Burchfield	1/4/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	43	mg/L	0.7	1	S Burchfield	1/4/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	S Burchfield	1/8/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002082004
Project Name:
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA ASH
Project Site No.: Depth 3.5 feet
Station No.:
Date/Time Collected: 01/02/2009 11:50
Sampler's Name: V. McFall
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.03 pH Units
Chlorine, residual:
Conductivity: 67.8 uMHO
Temperature: 7.55
Dissolved Oxygen: 10.85 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	S Burchfield	1/4/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	17	mg/L	0.7	1	S Burchfield	1/4/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	10	mg/L	10	10	S Burchfield	1/8/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002082005
Project Name:
Sample Description: Emory River Mile 4.0
Sampler Project Name: TVA ASH
Project Site No.: Depth 15 feet
Station No.:
Date/Time Collected: 01/02/2009 12:25
Sampler's Name: V. McFall
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.07 pH Units
Chlorine, residual:
Conductivity: 71.1 uMHO
Temperature: 7.40
Dissolved Oxygen: 10.65 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	15	mg/L	3.8	10	S Burchfield	1/4/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	19	mg/L	0.7	1	S Burchfield	1/4/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	S Burchfield	1/8/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002082006

Project Name:

Sample Description: Clinch River 4.0

Sampler Project Name: TVA ASH

Project Site No.:

Station No.:

Date/Time Collected: 01/02/2009 12:35

Sampler's Name: M. Atchley

County: ROANE - 73

Sample Matrix: Water

EFO: Knoxville

Sampling Agency: TDEC-WPC

Billing Code: 327.34-20

Send Report To: TDEC-WPC

Agency Invoiced: TDEC-WPC

Priority Date:

Date/Time Received: 01/02/2009 14:50

Received By: E McCrary

Field Determinations

pH: 7.5 pH Units

Chlorine, residual:

Conductivity: 302 uMHO

Temperature: 8.59

Dissolved Oxygen: 9.8 mg/L

Other:

Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	110	mg/L	3.8	10	S Burchfield	1/4/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	93	mg/L	0.7	1	S Burchfield	1/4/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	S Burchfield	1/8/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected



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Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002082
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.

Analytical Supervisor

Lab-Sample Number: K00002082001
Project Name:
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA ASH
Project Site No.: Depth 15 feet
Station No.:
Date/Time Collected: 01/02/2009 11:00
Sampler's Name: V. McFall
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.73 pH Units
Chlorine, residual:
Conductivity: 288.0 uMHO
Temperature: 8.56
Dissolved Oxygen: 9.79 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/04/2009				A Wilson	1/4/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Arsenic	U	µg/L	0.93	5	M Pattanayek	1/4/2009
Barium	33	µg/L	2.5	5	M Pattanayek	1/4/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	1/4/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	1/4/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	1/4/2009
Cobalt	0.21J	µg/L	0.04	1	M Pattanayek	1/4/2009
Lead	0.31J	µg/L	0.10	1	M Pattanayek	1/4/2009
Manganese	35	µg/L	0.42	1	M Pattanayek	1/4/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	1/4/2009
Strontium	100	µg/L	0.47	1	M Pattanayek	1/4/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	1/4/2009
Uranium	0.32J	µg/L	0.01	1	M Pattanayek	1/4/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	1/4/2009

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/4/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002082002
Project Name:
Sample Description: Tennessee River Surface
Sampler Project Name: TVA ASH
Project Site No.: Mile 568.5
Station No.:
Date/Time Collected: 01/02/2009 11:28
Sampler's Name: M. Atchley
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.1 pH Units
Chlorine, residual:
Conductivity: 175 uMHO
Temperature: 7.8
Dissolved Oxygen: 10.6 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/04/2009				A Wilson	1/4/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Arsenic	U	µg/L	0.93	5	M Pattanayek	1/4/2009
Barium	20	µg/L	2.5	5	M Pattanayek	1/4/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	1/4/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	1/4/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	1/4/2009
Cobalt	0.15J	µg/L	0.04	1	M Pattanayek	1/4/2009
Lead	0.23J	µg/L	0.10	1	M Pattanayek	1/4/2009
Manganese	42	µg/L	0.42	1	M Pattanayek	1/4/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	1/4/2009
Strontium	62	µg/L	0.47	1	M Pattanayek	1/4/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	1/4/2009
Uranium	0.09J	µg/L	0.01	1	M Pattanayek	1/4/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	1/4/2009

TEST: Mercury			METHOD: EPA 245.1			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/4/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002082003
Project Name:
Sample Description: Tennessee River @ 15 ft
Sampler Project Name: TVA ASH
Project Site No.: Mile 568.5
Station No.:
Date/Time Collected: 01/02/2009 11:37
Sampler's Name: M. Atchley
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.1 pH Units
Chlorine, residual:
Conductivity: 175 uMHO
Temperature: 7.8
Dissolved Oxygen: 10.6 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/04/2009				A Wilson	1/4/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Arsenic	U	µg/L	0.93	5	M Pattanayek	1/4/2009
Barium	21	µg/L	2.5	5	M Pattanayek	1/4/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	1/4/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	1/4/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	1/4/2009
Cobalt	0.16J	µg/L	0.04	1	M Pattanayek	1/4/2009
Lead	0.29J	µg/L	0.10	1	M Pattanayek	1/4/2009
Manganese	38	µg/L	0.42	1	M Pattanayek	1/4/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	1/4/2009
Strontium	65	µg/L	0.47	1	M Pattanayek	1/4/2009
Thallium	0.51J	µg/L	0.03	1	M Pattanayek	1/4/2009
Uranium	0.1J	µg/L	0.01	1	M Pattanayek	1/4/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	1/4/2009

TEST: Mercury			METHOD: EPA 245.1			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/4/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002082004
Project Name:
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA ASH
Project Site No.: Depth 3.5 feet
Station No.:
Date/Time Collected: 01/02/2009 11:50
Sampler's Name: V. McFall
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.03 pH Units
Chlorine, residual:
Conductivity: 67.8 uMHO
Temperature: 7.55
Dissolved Oxygen: 10.85 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/04/2009				A Wilson	1/4/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Arsenic	U	µg/L	0.93	5	M Pattanayek	1/4/2009
Barium	26	µg/L	2.5	5	M Pattanayek	1/4/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	1/4/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	1/4/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	1/4/2009
Cobalt	0.36J	µg/L	0.04	1	M Pattanayek	1/4/2009
Lead	0.46J	µg/L	0.10	1	M Pattanayek	1/4/2009
Manganese	48	µg/L	0.42	1	M Pattanayek	1/4/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	1/4/2009
Strontium	30	µg/L	0.47	1	M Pattanayek	1/4/2009
Thallium	0.10J	µg/L	0.03	1	M Pattanayek	1/4/2009
Uranium	0.04J	µg/L	0.01	1	M Pattanayek	1/4/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	1/4/2009

TEST: Mercury			METHOD: EPA 245.1			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/4/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002082005
Project Name:
Sample Description: Emory River Mile 4.0
Sampler Project Name: TVA ASH
Project Site No.: Depth 15 feet
Station No.:
Date/Time Collected: 01/02/2009 12:25
Sampler's Name: V. McFall
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327-34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 01/02/2009 14:50
Received By: E McCrary

Field Determinations
pH: 7.07 pH Units
Chlorine, residual:
Conductivity: 71.1 uMHO
Temperature: 7.40
Dissolved Oxygen: 10.65 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/04/2009				A Wilson	1/4/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Arsenic	U	µg/L	0.93	5	M Pattanayek	1/4/2009
Barium	26	µg/L	2.5	5	M Pattanayek	1/4/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	1/4/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	1/4/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	1/4/2009
Cobalt	0.31J	µg/L	0.04	1	M Pattanayek	1/4/2009
Lead	0.43J	µg/L	0.10	1	M Pattanayek	1/4/2009
Manganese	47	µg/L	0.42	1	M Pattanayek	1/4/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	1/4/2009
Strontium	30	µg/L	0.47	1	M Pattanayek	1/4/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	1/4/2009
Uranium	0.03J	µg/L	0.01	1	M Pattanayek	1/4/2009
Vanadium	3.8J	µg/L	3.4	5	M Pattanayek	1/4/2009

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/4/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002082006

Project Name:

Sample Description: Clinch River 4.0

Sampler Project Name: TVA ASH

Project Site No.:

Station No.:

Date/Time Collected: 01/02/2009 12:35

Sampler's Name: M. Atchley

County: ROANE - 73

Sample Matrix: Water

EFO: Knoxville

Sampling Agency: TDEC-WPC

Billing Code: 327.34-20

Send Report To: TDEC-WPC

Agency Invoiced: TDEC-WPC

Priority Date:

Date/Time Received: 01/02/2009 14:50

Received By: E McCrary

Field Determinations

pH: 7.5 pH Units

Chlorine, residual:

Conductivity: 302 uMHO

Temperature: 8.59

Dissolved Oxygen: 9.8 mg/L

Other:

Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/04/2009				A Wilson	1/4/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Arsenic	U	µg/L	0.93	5	M Pattanayek	1/4/2009
Barium	34	µg/L	2.5	5	M Pattanayek	1/4/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	1/4/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	1/4/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	1/4/2009
Cobalt	0.19J	µg/L	0.04	1	M Pattanayek	1/4/2009
Lead	0.23J	µg/L	0.10	1	M Pattanayek	1/4/2009
Manganese	37	µg/L	0.42	1	M Pattanayek	1/4/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	1/4/2009
Strontium	120	µg/L	0.47	1	M Pattanayek	1/4/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	1/4/2009
Uranium	0.33J	µg/L	0.01	1	M Pattanayek	1/4/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	1/4/2009

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/4/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected